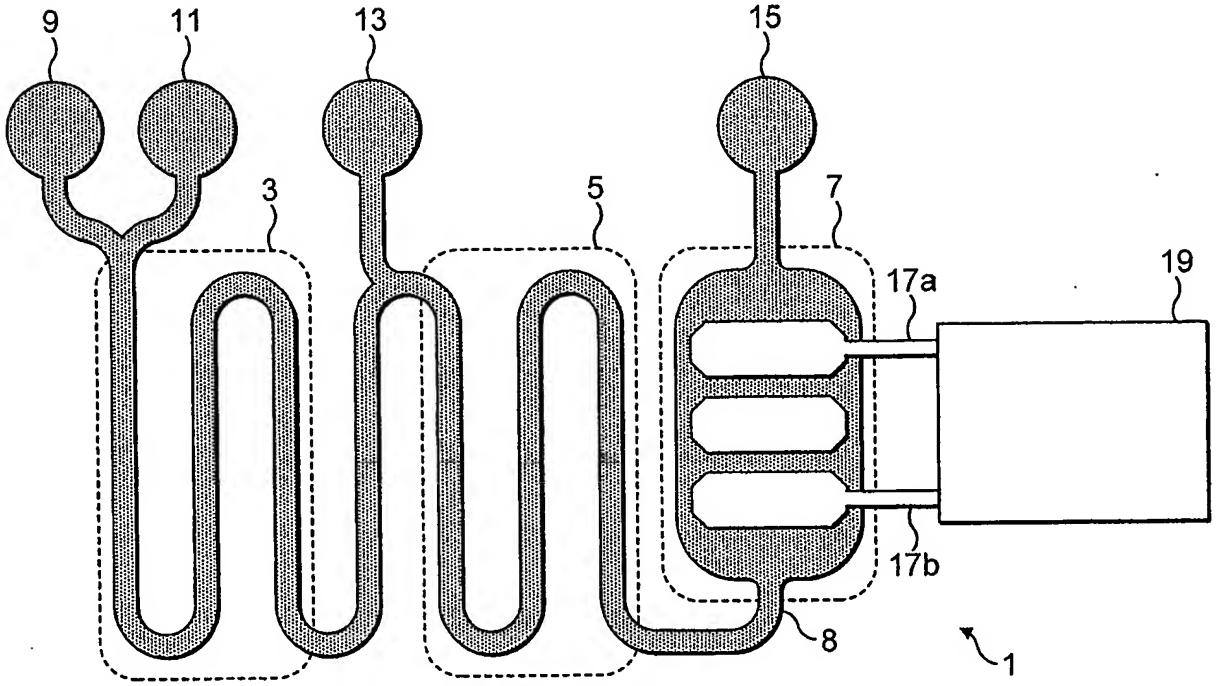

FIG. 1

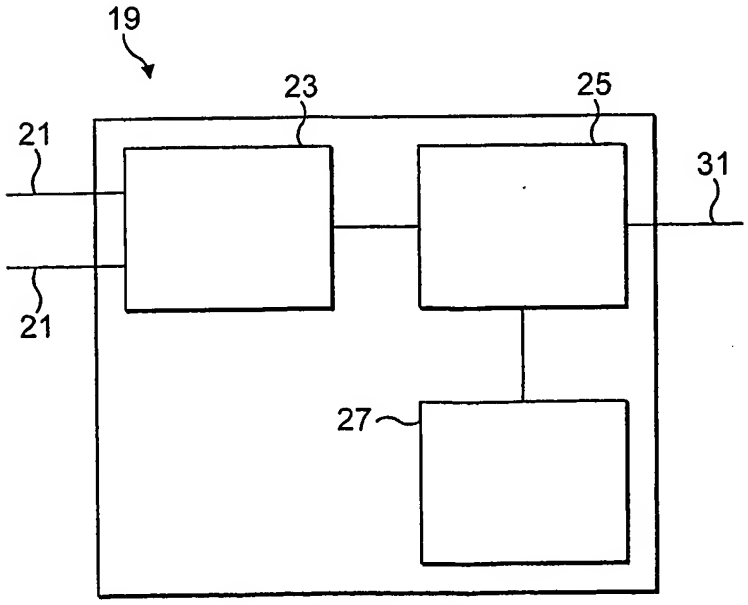

FIG. 2

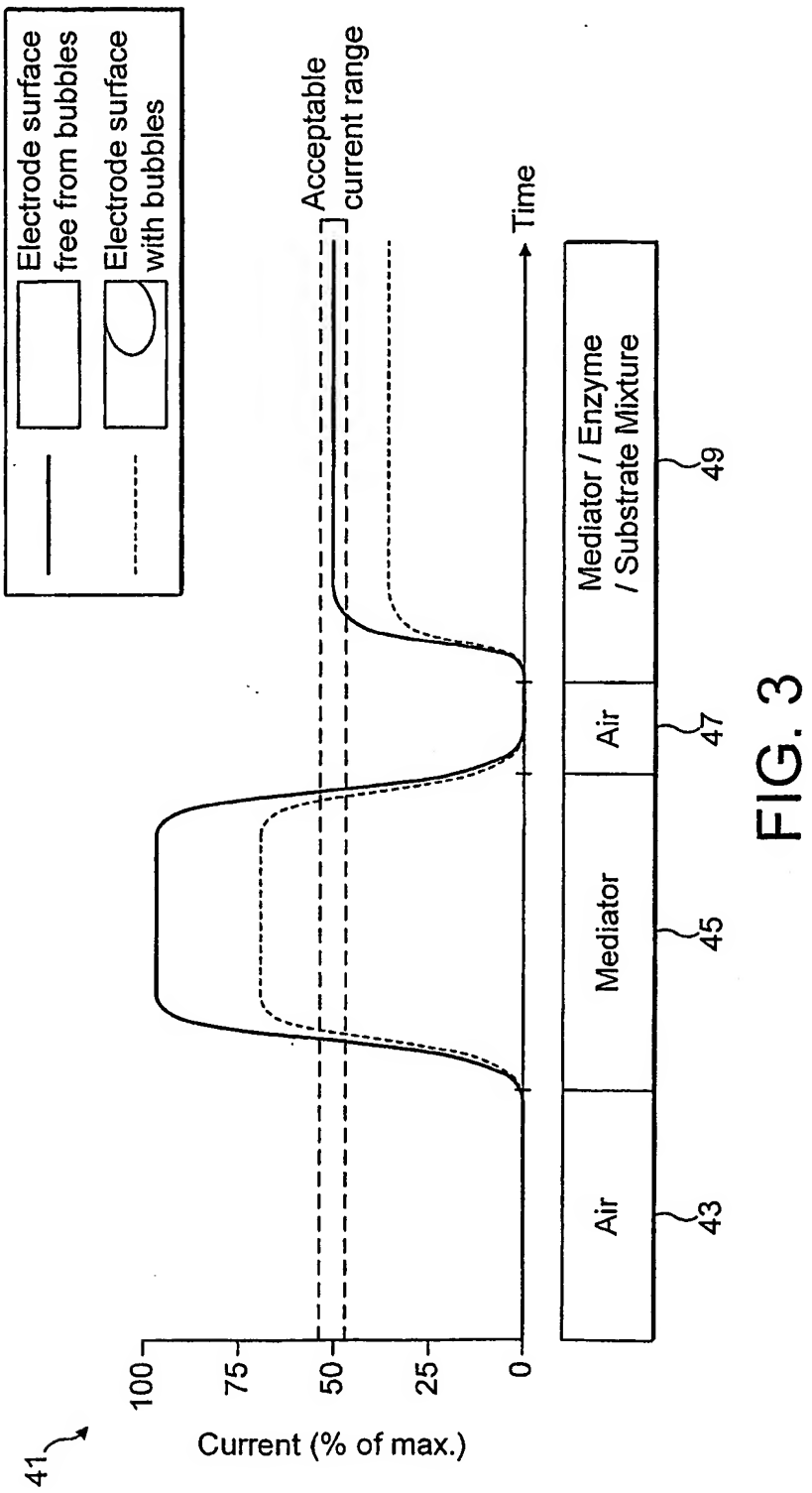
Electrode surface free from bubbles
Electrode surface with bubbles
Acceptable current range
Time
Mediator / Enzyme / Substrate Mixture
49
Air
47
Mediator
45
Air
43
100
75
50
25
0
Current (% of max.)
41

FIG. 3

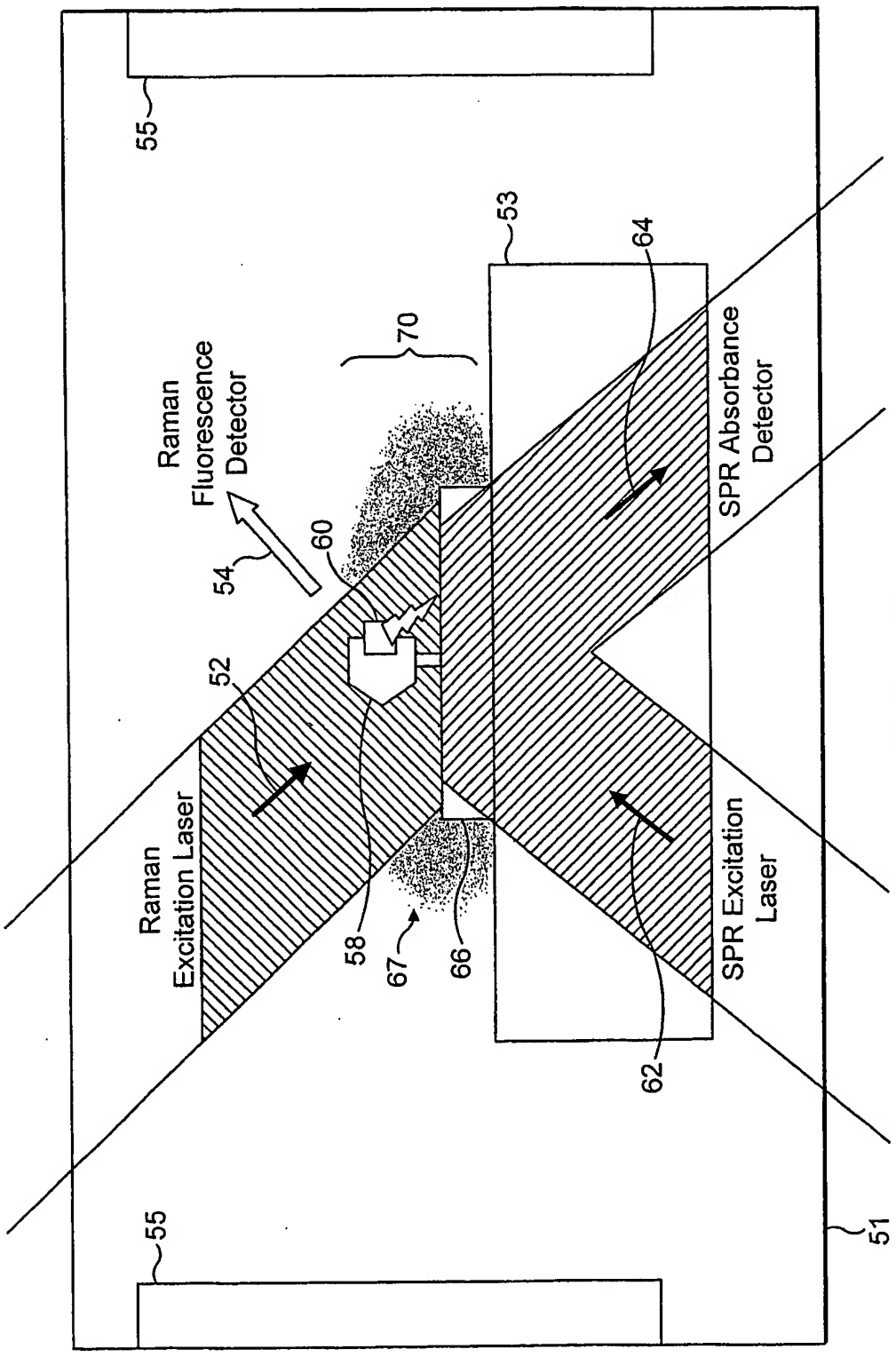
55
53
64
70
Raman Fluorescence Detector
SPR Absorbance Detector
54
60
52
Raman Excitation Laser
SPR Excitation Laser
58
67
66
62
55
51

FIG. 4